

SHEET 1 OF 4

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.3P	<i>for RAKIB, 739 SERIAL NO. 08/895,612</i>
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 16, 1997	GROUP unknown

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
<i>gdc</i>	A 5,442,627	Aug. 15, 1995	Viterbi, et al.	370	22	Jun. 24, 1993
<i>gdc</i>	B 5,452,328	Sep. 19, 1995	Rice	375	210	Jul. 30, 1993
<i>gdc</i>	C 5,090,024	Feb. 18, 1992	Vander Mey, et al.	375	1	Aug. 23, 1989
<i>gdc</i>	D 4,933,930	Jun. 12, 1990	Lien et al.	370	18	Oct. 31, 1988
<i>gdc</i>	E 5,448,555	Sep. 5, 1995	Bremer et al.	370	20	Jun. 14, 1993
<i>gdc</i>	F 5,404,570	Apr. 4, 1995	Charas et al.	455	22	Nov. 23, 1992
<i>gdc</i>	G 5,440,585	Aug. 8, 1995	Partridge, III	375	261	Jun. 14, 1993
<i>gdc</i>	H 4,723,164	Feb. 2, 1988	Nienaber	358	148	Jun. 28, 1985
<i>gdc</i>	I 5,418,813	May 23, 1995	Schaffner et al.	375	205	Dec. 6, 1993
<i>gdc</i>	J 4,926,130	May 15, 1990	Weaver	328	14	Jan. 19, 1988
<i>gdc</i>	K 5,224,122	Jun. 29, 1993	Bruckert	375	1	Jun. 29, 1992
<i>gdc</i>	L 5,325,394	Jun. 28, 1994	Bruckert	375	1	Mar. 3, 1993
<i>gdc</i>	M 4,773,066	Sep. 20, 1988	Kirkman	370	85	Apr. 15, 1986
<i>gdc</i>	N 4,912,721	Mar. 27, 1990	Pidgeon Jr., et al.	375	1	Apr. 29, 1988
<i>gdc</i>	O 5,235,619	Aug. 10, 1993	Beyers, II et al.	375	38	Mar. 20, 1990

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	YES	NO
<i>gdc</i>								
<i>gdc</i>	P PCT/US95/10899	Mar. 21, 1996	PCT				X	
<i>gdc</i>	Q PCT/US95/04329	Oct. 26, 1995	PCT				X	
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL		
<i>gdc</i>	T	<i>Westlaw Dialog Search</i>
<i>gdc</i>	U	R. De Gaudenzi et al., "Performance Evaluation of Quasi-Synchronous Code Division Multiple Access (QS-CDMA) for Satellite Mobile Systems," GLOBECOM '90: IEEE Global Telecommunications Conference, 1800-1804. (04/1990)

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*S. Cangialosi*DATE CONSIDERED  
*3/05*

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SHEET 2 OF 4

For 09/764, 739  
SERIAL NO.  
(08/895,612)

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.3P
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 16, 1997
		GROUP unknown

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
GMP	A	4,811,365	Mar 7, 1989	Manno	375	107	Nov 7, 1986
SPC	B	5,425,027	Jun 13, 1995	Baran	370	69.1	Jan 4, 1993
SL	C	4,688,210	Aug 18, 1987	Eizenhofer, et al.	370	335	Mar 18, 1986
SPR	D	5,539,730	Jul 23, 1996	Dent	370	320	Jan 11, 1994
SPR	E	5,533,013	Jul 2, 1996	Leppanen	370	206	Apr 11, 1995
SPR	F	5,481,533	Jan 2, 1996	Honig, et al.	375	206	May 12, 1994
SPR	G	5,390,166	Feb 14, 1995	Rohani, et al.	370	335	Jul 14, 1993
SPC	H	5,363,404	Nov 8, 1994	Kotzin, et al.	370	352	Jul 13, 1993
SPC	I	5,345,439	Sep 6, 1994	Marston	370	18	Apr 23, 1993
SPC	J	5,347,304	Sep 13, 1994	Moura, et al.	348	12	Jul 28, 1993
SPC	K	4,475,208	Oct 2, 1984	Ricketts	375	1	Jan 18, 1982
GPM	L	4,635,274	Jan 6, 1987	Kubota	375	1	Apr 25, 1985
SPV	M	5,463,660	Oct. 31, 1995	Fukasawa, et al.	375	205	Aug. 3, 1994
SPV	N	5,442,662	Aug. 15, 1995	Fukasawa, et al.	375	205	Jun. 16, 1994
SPC	O	5,414,699	May 9, 1995	Lee	370	18	Sep. 27, 1993

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL		
SPC	T	R. Lugas et al., "Linear Multiuser Detectors for Synchronous Code Division Multiple Access Channels," IEEE Transactions on Information Theory, Vol. 35, Issue 1, pgs. 123-136. (01/1989)
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S. Cangialosi

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70R09/764,739  
SERIAL NO.  
(08/895,612)

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.3P
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 16, 1997
		GROUP unknown

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
gr	A 5,345,472	Sep. 6, 1994	Lee	375	1	Aug. 2, 1993
gr	B 5,297,162	Mar. 22, 1994	Lee, et al.	375	1	Jun. 4, 1993
gr	C 5,327,455	Jul. 5, 1994	De Gaudenzi, et al.	375	1	Mar. 18, 1993
gr	D 5,319,634	Jun. 7, 1994	Bartholomew, et al.	370	18	Oct. 7, 1991
gr	E 5,416,797	May 16, 1995	Gilhouse, et al.	375	705	Jan. 24, 1992
gr	F 4,554,579	Nov. 19, 1985	Citta	358	86	Sep. 6, 1984
gr	G 4,553,161	Nov. 12, 1985	Citta	358	86	Sep. 6, 1984
gr	H 5,231,664	Jul. 27, 1993	Bestler, et al.	380	20	Nov. 14, 1991
gr	I 5,239,557	Aug. 24, 1993	Dent	371	1	Apr. 10, 1992
gr	J 4,460,992	Jul. 17, 1984	Gutleber	370	19	Nov. 4, 1982
gr	K 5,363,403	Nov. 8, 1994	Schilling, et al.	375	1	Apr. 22, 1993
gr	L 4,470,138	Sep. 4, 1984	Gutleber	370	18	Nov. 4, 1982
gr	M 5,394,391	Feb. 28, 1995	Chen, et al.	370	18	Oct. 15, 1992
gr	N 5,442,625	Aug. 15, 1995	Gitlin, et al.	370	18	May 13, 1994
gr	O 5,233,630	Aug. 3, 1993	Wolf	375	67	May 3, 1991
gr	P 4,757,460	Jul. 12, 1988	Bione, et al.	364	514	Jun. 14, 1985
gr	Q 5,235,615	Aug. 10, 1993	Omura	375	1	Jul. 21, 1992
gr	R 5,373,502	Dec. 13, 1994	Turban	370	18	Mar. 25, 1993
gr	S 5,353,300	Oct. 4, 1994	Lee, et al.	375	1	Jun. 7, 1993
gr	T 5,193,094	Mar. 9, 1993	Viterbi	371	43	Mar. 7, 1990
gr	U 5,359,624	Oct. 25, 1994	Lee, et al.	375	1	Jun. 7, 1993
gr	V 5,309,474	May 3, 1994	Gilhouse, et al.	375	1	Mar. 27, 1992
gr	W 5,280,472	Jan. 18, 1994	Gilhouse, et al.	370	18	Mar. 9, 1992
gr	X 5,313,454	May 17, 1994	Bustini, et al.	370	13	Apr. 1, 1992
gr	Y 5,467,342	Nov. 14, 1995	Longston, et al.	370	17	Oct. 5, 1994
gr	Z 5,305,308	Apr. 19, 1994	English, et al.	370	32.1	Oct. 29, 1992

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SHEET 4 OF 4

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.3P	for 09(76.4, 739 SERIAL NO. 08/895,612)
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 16, 1997	GROUP unknown

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
M	A 4,748,681	May 31, 1998	Schmidt	455	33	Apr. 28, 1986
G	B 5,295,152	Mar. 15, 1994	Gudmundson, et al.	375	1	Apr. 10, 1992
G	C 5,442,700	Aug. 15, 1995	Snell, et al.	380	15	Sep. 22, 1994
G	D 5,557,316	Sep. 17, 1996	Hoarty, et al.	348	7	Sep. 29, 1994
G	E 5,511,067	Apr. 23, 1996	Miller	370	18	Jun. 17, 1994
G	F 5,398,258	Mar. 14, 1995	Su, et al.	375	200	Oct. 26, 1993
G	G 5,583,853	12/10/1996	Giallorenzi, et al.	370	441	11/28/95
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## SHEET 1 OF 2

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	108/091764, 739 SERIAL NO. 08/684,243
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE 07/19/96	GROUP 2711

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
SAC	A	Re. 35,774	Apr. 21, 1998	Moura, et al.	348	12	Nov. 16, 1994
SAC	B	4,829,569	May 9, 1989	Seth-Smith, et al.	380	10	Jul. 8, 1986
SAC	C	4,894,789	Jan. 16, 1990	Yee	364	521	Feb. 22, 1988
SAC	D	5,093,718	Mar. 3, 1992	Hoarty, et al.	358	84	Sep. 28, 1990
SAC	E	5,130,983	Jul. 14, 1992	Heffner, III	370	85.8	Mar. 27, 1990
SAC	F	5,133,079	Jul. 21, 1992	Ballantyne, et al.	455	4.1	Aug. 28, 1990
SAC	G	5,195,092	Mar. 16, 1993	Wilson, et al.	370	94.2	Aug. 30, 1991
SAC	H	5,200,993	Apr. 6, 1993	Wheeler, et al.	379	96	May 10, 1991
SAC	I	5,247,347	Sep. 21, 1993	Littoral, et al.	358	85	Sep. 27, 1991
SAC	J	5,373,288	Dec. 13, 1994	Blahut	340	825.08	Oct. 23, 1992

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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*S. Gangioglio*DATE CONSIDERED  
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FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	FOR 09/164, SERIAL NO. 08/684,243
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE 07/19/96	GROUP 2711

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
gmc	A	5,408,465	Apr. 18, 1995	Gusella, et al.	370	17	Jun. 21, 1993
gc	B	5,550,578	Aug. 27, 1996	Hoarty, et al.	348	7	Oct. 6, 1994
gyr	C	5,572,517	Nov. 5, 1996	Safadi	370	50	Mar. 10, 1995
gp	D	5,572,528	Nov. 5, 1996	Shuen	370	85.13	Mar. 20, 1995
gmc	E	5,828,655	Oct. 27, 1998	Moura, et al.	370	236	Aug. 21, 1996
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	YES	NO
gmc	K	EP 0 767 544 A2	Apr. 9, 1997	Europe	H04B	1/707	X		
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*S. Cangielos,*DATE CONSIDERED  
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## SHEET 1 OF 1

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	for 09/764,739 SERIAL NO. 08/684,243
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 19, 1996	GROUP 2602

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
A	5,499,236	Mar 12, 1996	Giallorenzi, et al.	370	18	Aug 16, 1994
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## SHEET 1 OF 1

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	For 09/764,739 SERIAL NO. [08/684,243]
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 19, 1996	GROUP 2602

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
SH	A 5,751,739	May 12, 1998	Seshadri, et al.	371	43	Apr. 29, 1994
GP	B 4,218,654	Aug. 19, 1980	Ogawa, et al.	370	97	Feb. 21, 1979
GC	C 5,072,445	Dec. 10, 1991	Nawata	370	104	Nov. 30, 1989
CM	D 5,617,410	Apr. 1, 1997	Matsumoto	370	342	Mar. 15, 1995
GA	E 5,712,982	Jan. 27, 1998	Marcel	395	200.17	Sep. 20, 1995
GL	F 5,745,484	Apr. 28, 1998	Scott	370	347	Jun. 5, 1995
GC	G 5,761,198	Jun. 2, 1998	Kojima	370	337	Sep. 22, 1995
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## FOREIGN PATENT DOCUMENTS

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*S. Gangiolas*

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## SHEET 1 OF 1

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	for 09/784,739 SERIAL NO. (08/684,243)
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE 07/19/96	GROUP 2711

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
SC	A 5,157,686	Oct. 20, 1992	Omura, et al.	375	1	Jun. 24, 1991
SC	B 5,164,958	Nov. 17, 1992	Omura	375	1	Jul. 19, 1991
SC	C 5,166,952	Nov. 24, 1992	Omura, et al.	375	1	May 24, 1990
SC	D 5,253,268	Oct. 12, 1993	Omura, et al.	375	1	Jun. 24, 1991
GP	E 5,737,329	Apr. 7, 1998	Horiguchi	370	342	Apr. 12, 1996
SC	F 5,930,235	Jul. 27, 1999	Arai	370	252	Feb. 28, 1997
SC	G 5,822,359	Oct. 13, 1998	Bruckert, et al.	375	200	Oct. 17, 1994
SC	H 5,610,911	Mar. 11, 1997	Ishikawa, et al.	370	503	Sep. 28, 1994
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## FOREIGN PATENT DOCUMENTS

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*S. Cangialosi*

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
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U.S. PATENT DOCUMENTS						
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE
82	S	"A Wireless Multimedia Network on a Time Division Duplex CDMA/TDMA", Seki K. et al., IEICE Transactions on Communications, vol. E78-B, no. 7, 1 July 1995, pages 1002-1015.
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S. Gangiolaso

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## SHEET 1 OF 1

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.3P	<i>Corr 09/964, 739</i> SERIAL NO. 108/895,612
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE February 9, 1998 unknown	GROUP

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
<i>SC</i>	A	5,488,412	Jan 30, 1996	Majeti, et al.	348	10	Mar 31, 1994
<i>SC</i>	B	5,512,935	Apr 30, 1996	Majeti, et al.	348	9	Mar 31, 1994
<i>SC</i>	C	5,534,913	Jul 9, 1996	Majeti, et al.	348	7	Mar 31, 1994
<i>SC</i>	D	5,586,121	Dec 17, 1996	Moura, et al.	370	404	Apr 21, 1995
<i>SC</i>	E	5,594,872	Jan 14, 1997	Kawano, et al.	395	200.15	Apr 26, 1994
<i>SC</i>	F	5,608,446	Mar 4, 1997	Carr, et al.	348	6	May 9, 1995
<i>SC</i>	G	5,608,728	Mar 4, 1997	Ulm, et al.	370	488	Apr 13, 1995
<i>SC</i>	H	5,619,531	Apr 8, 1997	Taylor, et al.	375	222	Nov 14, 1994
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FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.3P D4	FIR 097764, 739 SERIAL NO. [09759,774]
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE 1/12/01	GROUP 2631

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## FOREIGN PATENT DOCUMENTS

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EXAMINER INITIAL		
S	Nee Van R.D.J., "Timing Aspects of Synchronous CDMA" <i>IEEE International Symposium on Personal, Indoor and Mobile Radio Communications</i> , XX, XX, 1994, pages 439-443, XP000619815 Pages 439-440.	
T	Esmailzadeh R., et al., "Quasi-Synchronous Time Division Duplex CDMA" <i>Proceedings of the Global Telecommunications Conference (Globecom)</i> , US, New York, IEEE, 28 November 1994 (1994-11-28), pages 1637-1641, XP000488805, ISBN: 0-7803-1821-8 Pages 1637 1639.	
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*S. Cagiglosi*DATE CONSIDERED  
*07/05*

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